

**Amendments to the Abstract**

Please **add** the following Abstract to this application.

-- The network antenna of the RLSA type in the form of a radial waveguide ~~(3)~~ has a feed structure allowing simultaneous excitation of the antenna in two orthogonal linear polarizations. The feed structure, essentially placed to the rear of the antenna, consists of a circular waveguide ~~(6)~~ placed at the centre of the radial waveguide and coupled to the latter by two circular slots ~~(7, 8)~~ for the excitation of the antenna in a first linear polarization and of a coaxial waveguide ~~(10)~~ surrounding the circular waveguide ~~(6)~~ and coupled to the radial waveguide ~~(3)~~ by radial slots ~~(12)~~, the coaxial waveguide ~~(10)~~ being excited by a ring-shaped waveguide ~~(9)~~ placed coaxially on the outer periphery of the coaxial waveguide and coupled to the latter by slots ~~(11)~~ distributed around the inner periphery of the ring for the excitation of the antenna in a second linear polarization orthogonal to the first linear polarization. --